

APPENDIX D

**(VERSION OF CLAIMS AS AMENDED HEREIN
WITH MARKINGS TO SHOW CHANGES MADE)**

(Serial No. 09/888,890)

VERSION OF CLAIMS WITH MARKINGS TO SHOW CHANGES MADE

8. (Amended) The method of claim 7, wherein said generating further comprises generating said orientation decision variable to indicate that an orientation of said at least one polygon is one of an orientation of said at least one polygon, as indicated by a sign of said cross product term, and opposite an orientation of said at least one polygon, as indicated by said sign of said cross product term.

16. (Amended) The method of claim 15, wherein said generating further comprises generating said orientation decision variable to indicate that an orientation of said at least one polygon is one of an orientation of said at least one polygon, as indicated by a sign of said cross product term, and opposite an orientation of said at least one polygon, as indicated by said sign of said cross product term.

21. (Amended) The system of claim [202]20, further comprising a fifth logic circuit that determines an orientation of said at least one polygon based on said sign of said cross product term and said orientation decision variable.

22. (Amended) The system of claim 21, wherein said fifth logic circuit also decides whether to cull said data representative of said at least three vertices based on said orientation of said at least one polygon.

31. (Amended) The system of claim 30, wherein said fifth logic circuit also decides whether to cull said data representative of said at least three vertices based on said orientation of said at least one polygon.

38. (Amended) The method of claim [35]37, further comprising evaluating said sign of said cross product term based on said sorted order of said data.

41. (Amended) The method of claim [35]37, wherein said culling includes comparing said sign to an actual orientation of each polygon to determine whether said orientation has changed.

43. (Amended) The method of claim 42, wherein said sorting comprises sorting said data based on relative vertical positions of the at least three vertices of each polygon.

44. (Amended) The method of claim 43, further comprising sorting said data based on relative horizontal positions of at least two vertices of the at least three vertices of each polygon.

45. (Amended) The method of claim 35, further comprising generating [a]an orientation decision variable.

49. (Amended) A method for rendering an image of a digital object, comprising:
sorting data representative of positions of at least three vertices of a polygon of the digital object;
determining a cross product term for said at least three vertices following said sorting;
determining whether said polygon is front facing or back facing based at least in part on an actual orientation of said at least three vertices, a sign of said cross product term, and a sorted order of said at least three vertices; and
culling data representative of positions of said at least three vertices if said polygon is back facing.

57. (Amended) The method of claim 49, wherein said [evaluating]determining whether said polygon is front facing or back facing comprises determining whether said at least three vertices are oriented in a clockwise direction or a counterclockwise direction.

59. (Amended) A method for rendering an image of a digital object that includes a plurality of polygons, each of said polygons having at least three vertices, said method comprising:

•
• sorting data representative of the at least three vertices of each polygon of the [graphic]plurality of polygons of the image;
• determining an orientation of the at least three vertices based on a sorted order of said data;
determining whether [an]said orientation of the at least three vertices of each polygon of the plurality of polygons has changed from an actual orientation of the at least three vertices of each polygon of the plurality of polygons; and
culling data of the at least three vertices of each polygon of the plurality of polygons when said orientation has changed from said actual orientation.

60. (Amended) The method of claim 59, wherein said determining said orientation comprises determining whether said actual orientation of the at least three vertices of each polygon of the plurality of polygons is clockwise or counterclockwise.

61. (Amended) The method of claim 60, wherein said determining whether said orientation of the at least three vertices of each polygon of the plurality of polygons has changed comprises determining whether said orientation is opposite said actual orientation.

62. (Amended) The method of claim 61, wherein said sorting comprises arranging data representative of [the]positions of the at least three vertices of each polygon of the plurality of polygons based on at least relative vertical positions of the at least three vertices of each polygon of the plurality of polygons.

67. (Amended) The method of claim 66, wherein said determining whether said orientation of the at least three vertices of each polygon of the plurality of polygons has changed comprises evaluating said sign of said cross product term and said orientation decision variable.

68. (Amended) The method of claim 59, further comprising providing each polygon with [and]an appearance based at least in part on at least one of a cross product term of that polygon and a positional difference between at least two vertices of the at least three vertices of that polygon.